PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2003-283359

(43)Date of publication of application: 03.10.2003

(51)Int.CI.

HO4B 1/30

HO4B

HO4J 15/00

(21)Application number : 2002-079306

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(22)Date of filing:

20.03.2002

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(54) RADIO DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a radio device having an arrangement for compensating a frequency offset in a terminal equipment which transmits/receives signals in a MIMO system.

SOLUTION: A radio device 1000 is provided with: a plurality of antennas #1-#2, a carrier wave generator 10 for generating carrier waves for detecting synchronization; multipliers 12 and 14 for respectively multiplying the carrier waves and for performing detection processing for a plurality of reception signals from a plurality of antennas; a frequency offset estimating device 100 for estimating a frequency offset based on signals from the multipliers 12 and 14 and for calculating a

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single frequency offset estimate when MIMO system communication is performed; and frequency offset correction devices 30 and 32 for performing correction processing of the frequency offset for signals from a plurality of multiplying means.

LEGAL STATUS

[Date of request for examination]

18.07.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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